R E P O R T R E S U M E S

ED 018 964 EF 001 537

WHAT'S STILL HAPPENING TO THE CLASSROOM. A BRIEF REMINDER.

BY- BRUBAKER, CHARLES WILLIAM
PERKINS AND WILL, ARCHITECTS, CHICAGO, ILL.

PUB DATE OCT 67

EDRS PRICE MF-$0.25 HC-$0.44 9P.

DESCRIPTORS- *BUILDING INNOVATION, *CLASSROOM DESIGN, *EDUCATIONAL INNOVATION, *GROUP INSTRUCTION, *INDIVIDUAL INSTRUCTION, ECONOMICS, EDUCATIONAL TELEVISION, FLEXIBLE SCHEDULING, MOVABLE PARTITIONS, PROJECTION EQUIPMENT,

THE PAPER DISCUSSES AND CITES EXAMPLES OF INNOVATIONS IN EDUCATION AND EDUCATIONAL FACILITIES. FOLDING AND MOVABLE WALLS CAN NOW ACCOMMODATE SMALL, MEDIUM, AND LARGE GROUPS. ATTRACTIVE ECONOMICS CAN BE GAINED BY LARGE GROUP INSTRUCTION. RECENTLY ETV, DIAL ACCESS, OTHER MEDIA, AND COMPUTER-ASSISTED INSTRUCTION HAVE CHALLENGED LARGE GROUP INSTRUCTION. REAR SCREEN PROJECTION NOW FINDS A PLACE IN THE LECTURE ROOM. SPACE FOR INDIVIDUAL LEARNING--THE STUDY CARREL--EXPLORES THE FUTURE POSSIBILITIES OF SCHOOLS WITHOUT CLASSROOMS PROVIDING FOR INDIVIDUAL SCHEDULING, NEW MEDIA, AND A PLACE FOR EACH STUDENT'S QUEST. IN ADDITION, SEVERAL NEW EDUCATIONAL CONCEPTS AND THEIR RELATION TO FACILITIES ARE DESCRIBED, SUCH AS--(1) THE "LOFT SPACE" CONCEPT, (2) TWO-LEVEL CLASSROOMS, (3) TEAM TEACHING, (4) THE "LECTURE CENTER" CONCEPT, (5) THE "COMMUNICATIONS CENTER", AND (6) THE "TUTORIAL SYSTEM" CONCEPT. SEVERAL OF THESE CONCEPTS ARE IN OPERATION AND THE NAMES OF SCHOOLS UTILIZING SUCH FACILITIES ARE INCLUDED. DIAGRAMS AND PLANS ACCOMPANY THE TEXT. (RK)

U.S. DEPARTMENT OF HEALTH, EDUCATION & WELFARE
OFFICE OF EDUCATION

THIS DOCUMENT HAS BEEN REPRODUCED EXACTLY AS RECEIVED FROM THE PERSON OR ORGANIZATION ORIGINATING IT. POINTS OF VIEW OR OPINIONS STATED DO NOT NECESSARILY REPRESENT OFFICIAL OFFICE OF EDUCATION POSITION OR POLICY.

ED018964

STILL WHAT'S HAPPENING— TO THE CLASSROOM?

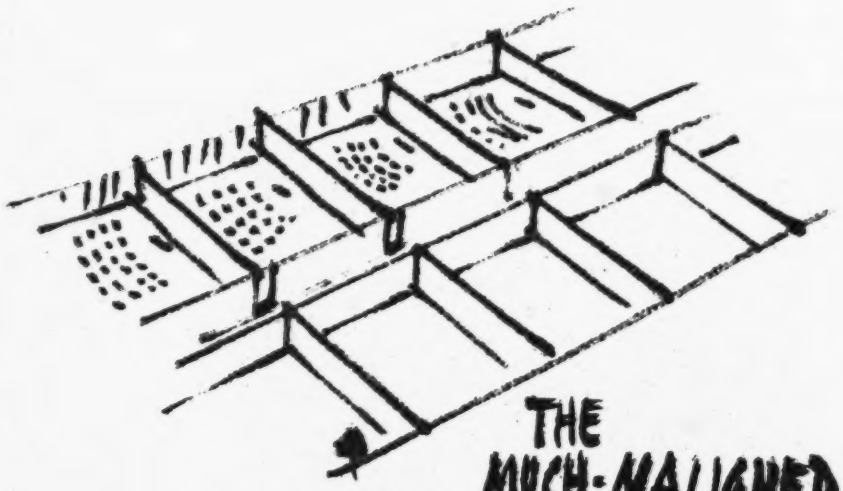
A BRIEF REMINDER

CHARLES WILLIAM BRUBAKER
THE PERKINS & WILL PARTNERSHIP
- OCTOBER 1967

EF001537

IN THE BEGINNING—
THERE WAS THE
CLASSROOM ...

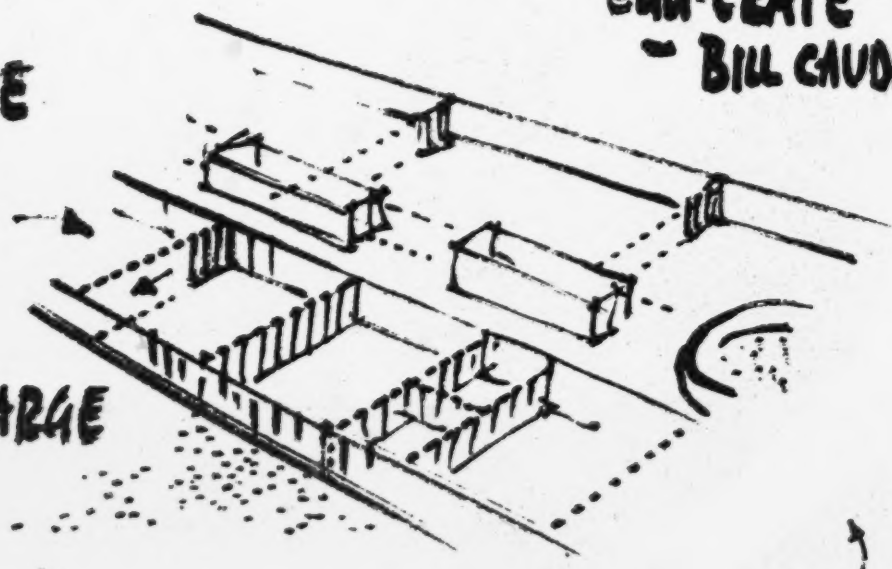
.. STRUNG-OUT
ALONG A CORRIDOR
... & WITH RIGID WALLS ...



THE
MUCH-MALIGNED
"EGG-CRATE"
— BILL CAUDILL

"FLEXIBILITY"
CAME TO THE RESCUE
WITH FOLDING AND
MOVABLE WALLS ...

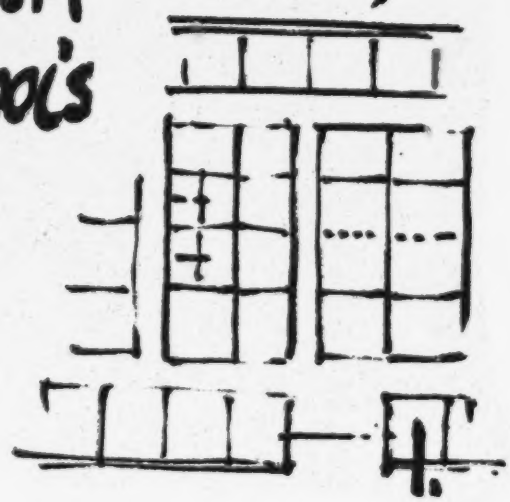
ACCOMODATING
SMALL, MEDIUM, & LARGE
GROUPS



JOHN LYON REID
PIONEERED THE "LOFT SPACE" CONCEPT
WITH HILLSDALE (CALIF.) HIGH SCHOOL'S
ADAPTIBLE SPACE ...

(Good test ... they've actually
changed many partitions
since 1958 ..

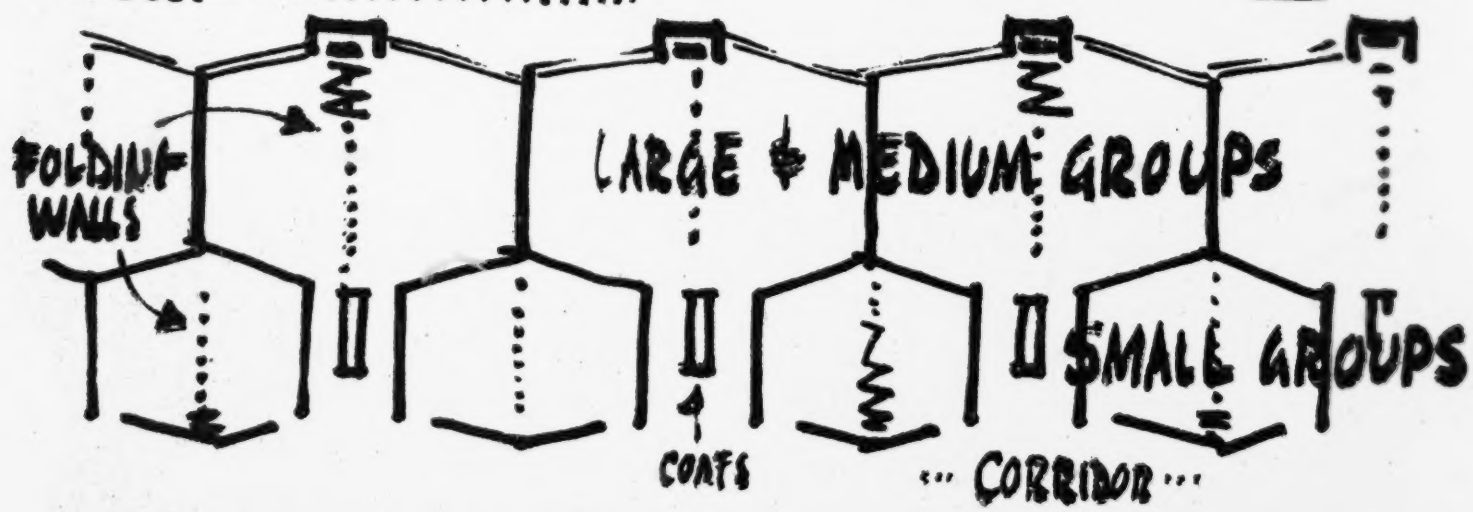
toward the
"open plan"
school



MEANWHILE ... ALSO
DEVIATING FROM THE
RECTANGULAR GRID ...

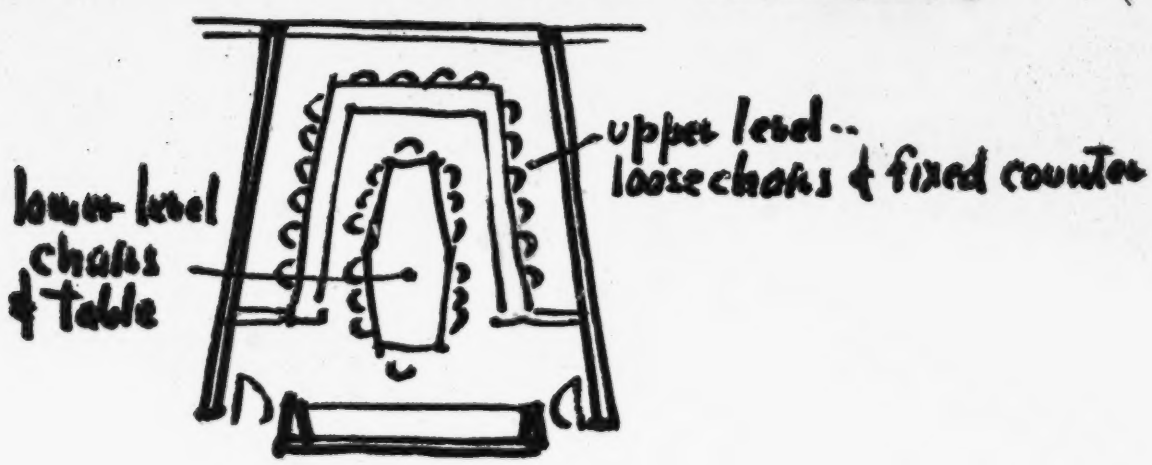
(Perkins & Will
circa 1960)

CHICAGO TEACHERS COLLEGE
ACHIEVED BETTER ACOUSTICS, SIGHTLINES, SPIRIT...!



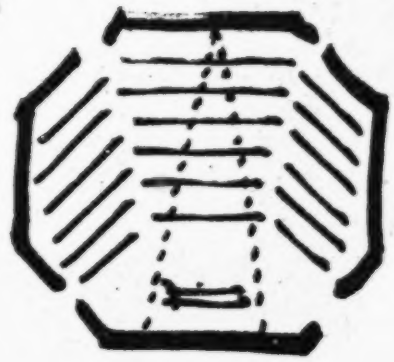
AND EERO SAARINEN DESIGNED
INTERESTING TWO-LEVEL CLASSROOMS —

(as at
U. of Chicago
Law School)



"Memo to a College Trustee" 1959

BEARDSLEY RUMMEL .. & OTHERS
REMINDED US OF THE ATTRACTIVE ECONOMICS (at least)
OF LARGE GROUP INSTRUCTION *

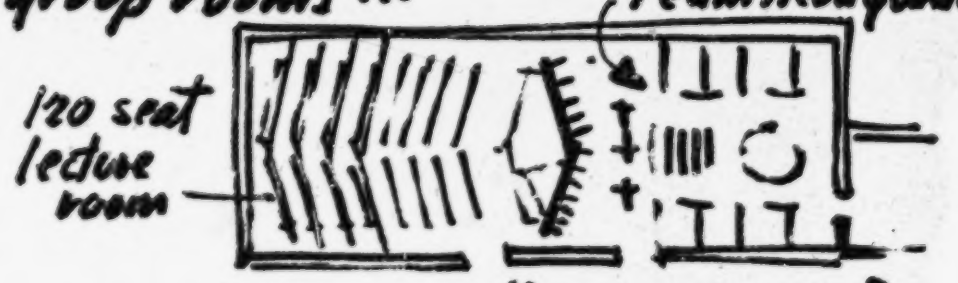


and "university type"
stepped lecture rooms
appeared in high schools
& colleges ...

LLOYD TRUMP'S PLAN PROMOTED
"TEAM TEACHING"

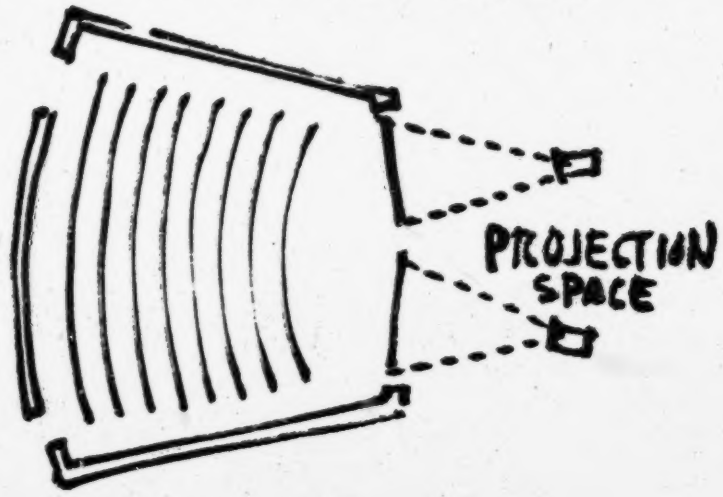
- instead of one teacher in one room ...
  a team of teachers using a cluster
  of varying-size spaces ...

EVANSTON TWP. HS (leading innovator in team teaching)
remodelled large study halls
to gain large group rooms ...



* more recently, ETV, did access, other media, & computer assisted instruction challenge it!

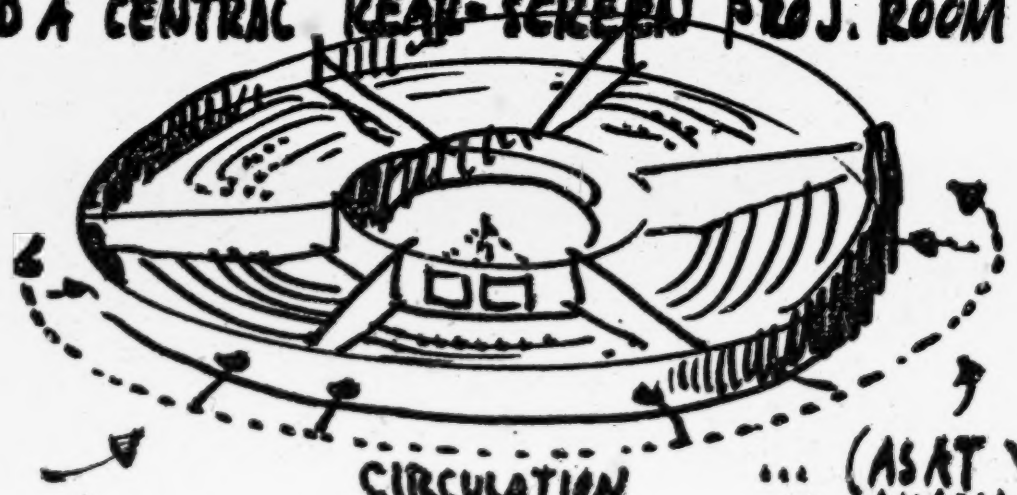
REAR SCREEN PROJECTION
burst into the lecture room..
.. from behind the front wall



Used effectively by military first.. then college experiments... as Chi. Tchrs. College

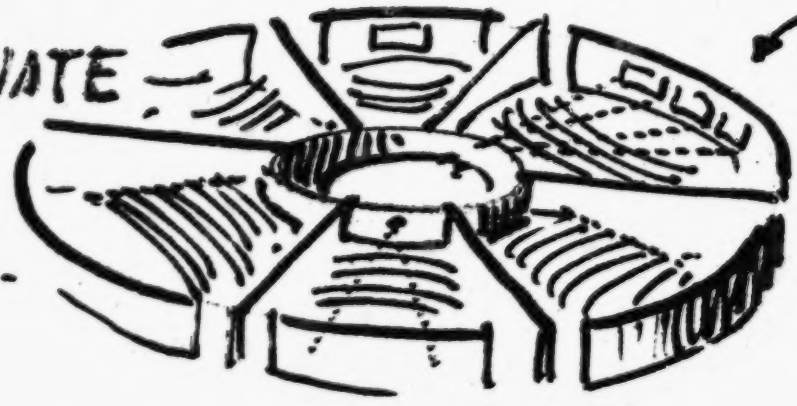
THEN — THE "LECTURE CENTER"
OFTEN AROUND A CENTRAL REAR-SCREEN PROJ. ROOM

note outstanding research by Alan Green at RPI



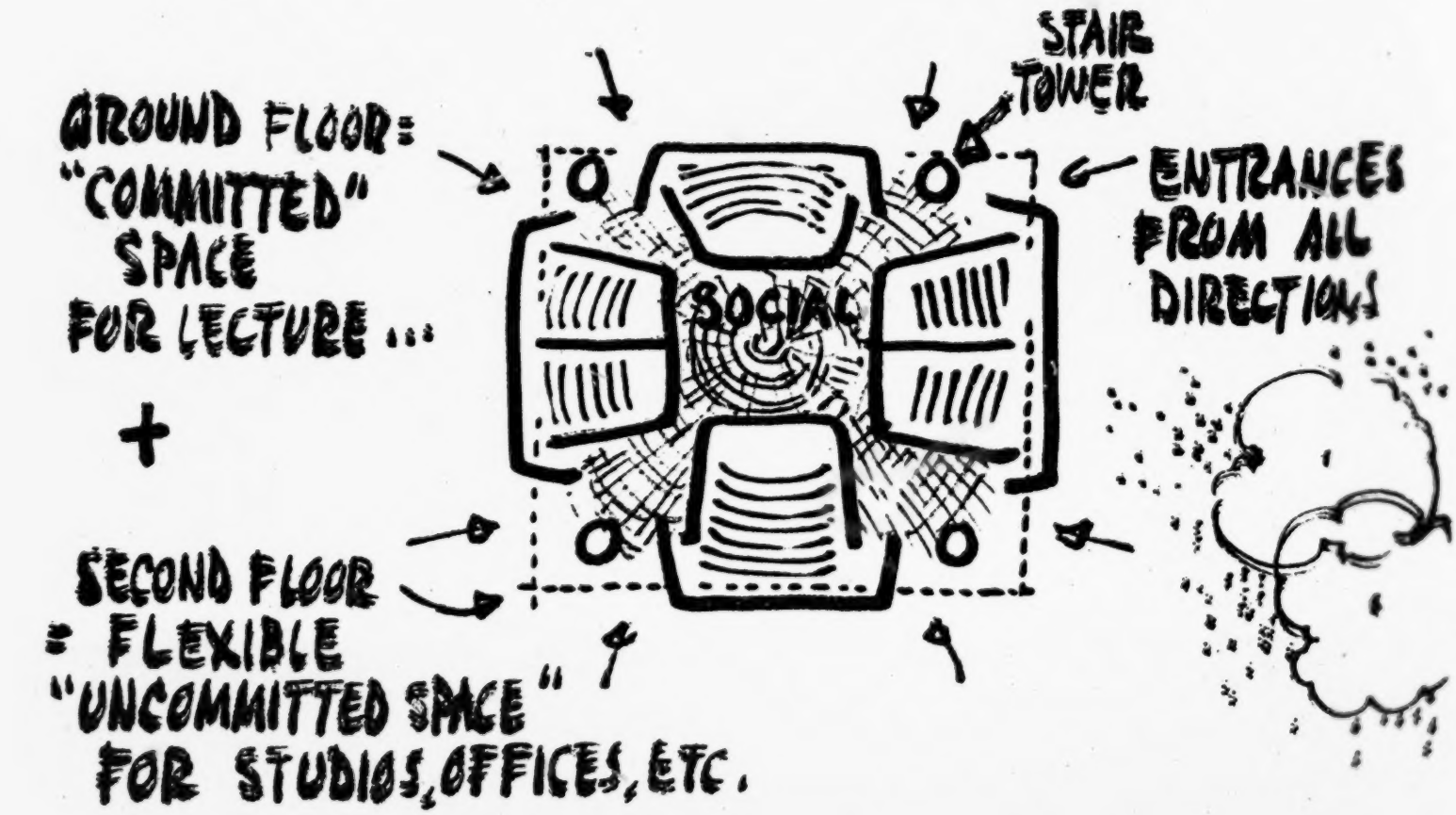
... (AS AT U. of MIAMI FLORIDA)

NOTE ALTERNATE "FRONT" PROJECTION FROM CENTER ---



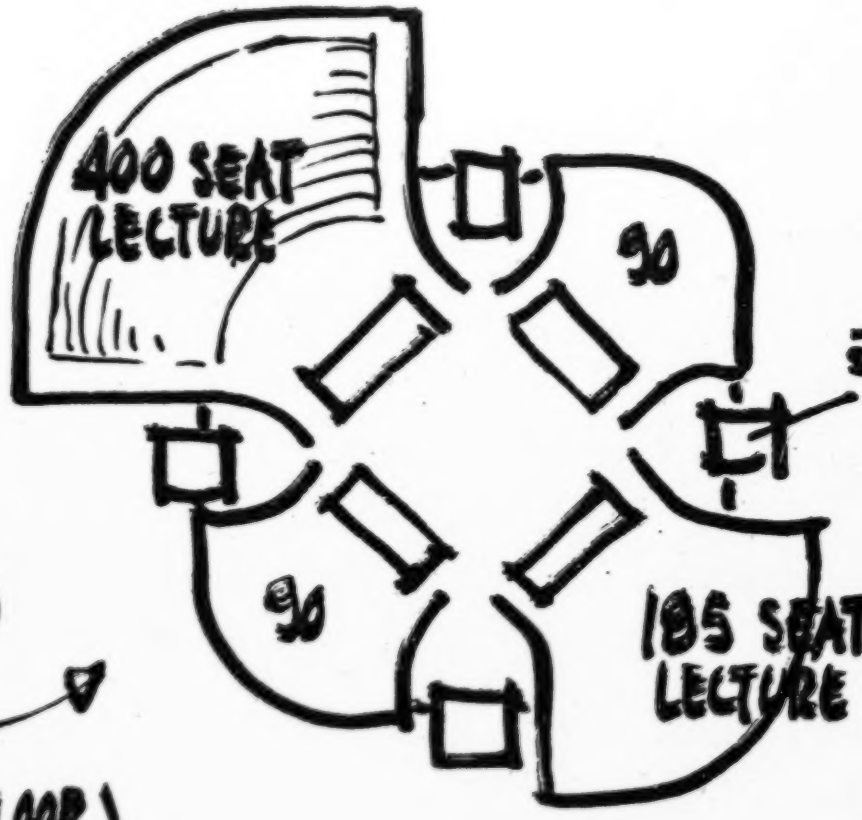
Frank Baumann, Miami-Dade prefers it.

MEANWHILE...
THE RPI LECTURE CENTER DESIGN (a competition won by Perkins & Will -- not built yet.
ACHIEVED A FINE SOCIAL SPACE
AT THE CENTER (WITH PROJECTION ABOVE IT)


STAIR TOWER
GROUND FLOOR: "COMMITTED" SPACE FOR LECTURE...
+
SECOND FLOOR = FLEXIBLE "UNCOMMITTED SPACE" FOR STUDIOS, OFFICES, ETC.
SOCIAL
ENTRANCES FROM ALL DIRECTIONS

THE RPI LECTURE CENTER DESIGN INFLUENCED THE NEW COMMUNICATIONS CENTER AT NY STATE UNIV. COLLEGE AT BUFFALO ...

(1967 ... Perkins & Will, architects)



SECOND FLOOR PLAN (THIRD FLOOR) SIMILAR

FIRST FLOOR = OFFICES, TV, MEDIA STUDIOS, ETC.

Total = 11 lecture halls

= one 400 seat = 400
two 185 seat = 370
four 90 seat = 360
four 50 seat = 200

... lecture hall total = 1330 seats

Reported in Oct 1967 issue "College & University Business" total Classroom area = 84,000 ft² building cost = $2.2 million

CIRCA 1959 RESEARCH, AS BY DR. WALTER COCKING, BILL BRUBAKER AND LARRY PERKINS ...

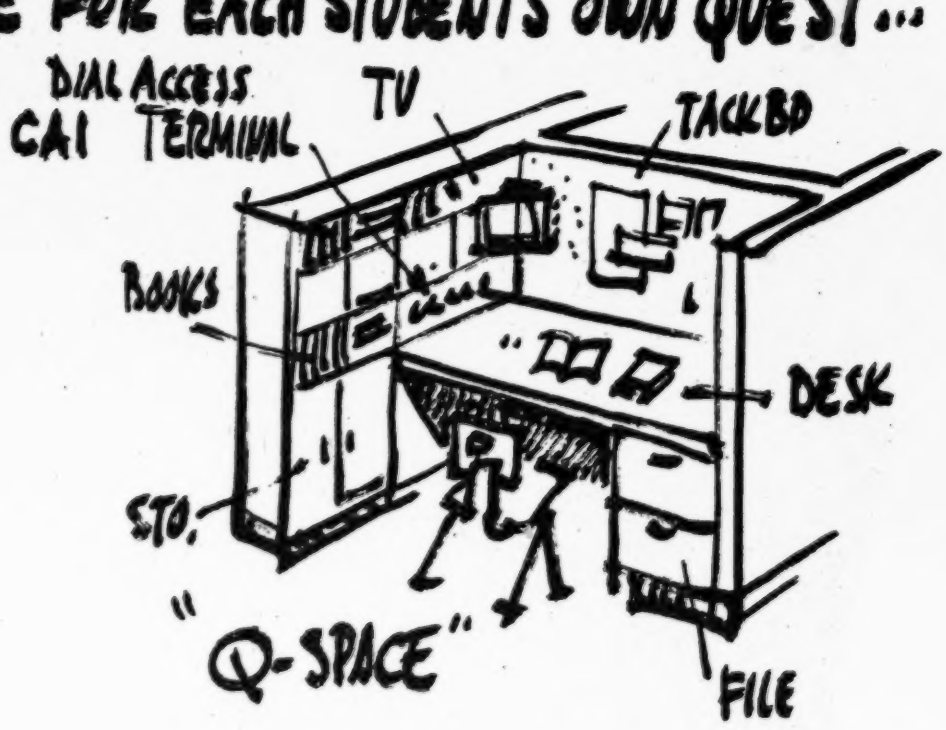
(published in Feb 1959 issue "School Executive")

"SPACE FOR INDIVIDUAL LEARNING"

explored the future possibilities of schools <u>without</u> classrooms ...

INDIVIDUAL SCHEDULING, NEW MEDIA, & A PLACE FOR EACH STUDENTS OWN QUEST...

dial access systems (note research by Ira Singer) & computer assisted instruction = new interest in the concept.

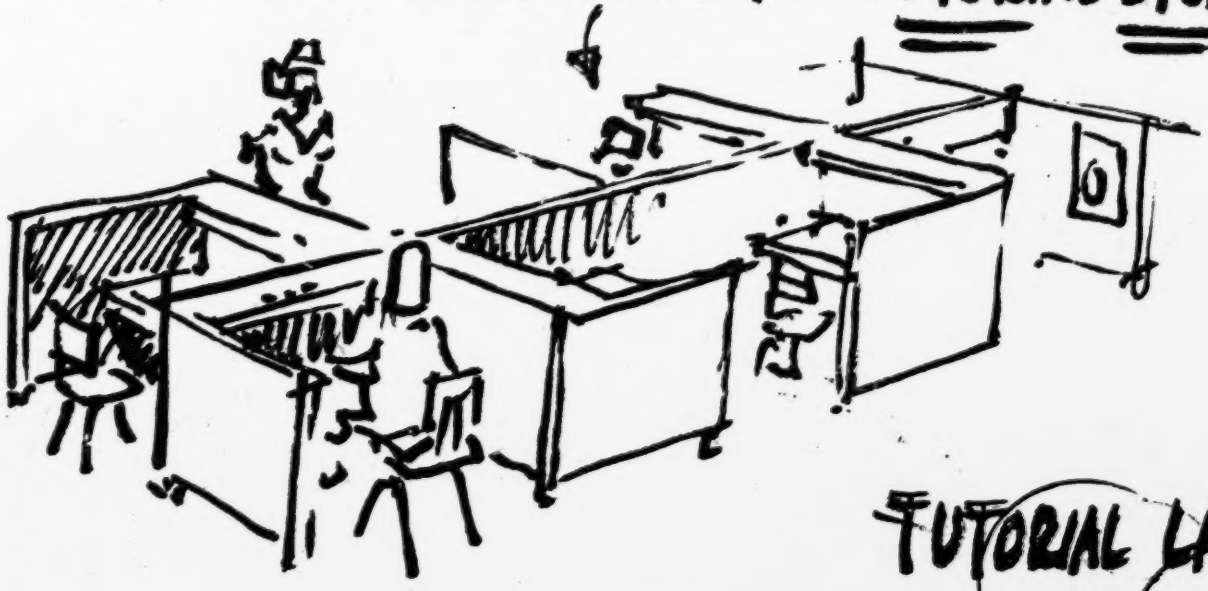


NOW... IN 1967.. THE CARREL IS A STANDARD PIECE OF EQUIPMENT IN SOME COLLEGES ... AS:: " OAKLAHOMA CHRISTIAN, ORAL ROBERTS, GRAND VALLEY. AND SCHOOLS ... MIDDLE SCHOOL, MT. KISCO, NY.

AND ORCHARD RIDGE CAMPUS
OF OAKLAND COMMUNITY COLLEGE
(NW-OF-DETROIT SUBURBS)

CHALLENGES THE
ENTIRE CONCEPT OF "CLASSROOM"...

WITH THE NEW MEDIA, CARREL, & TUTORIAL SYSTEM..



TUTORIAL LABS

campus plan ...
(..the "classroom walls" are gone..
"and the classroom is gone..)

" THE HUB "=
INSTRUCTIONAL RESOURCES,
COMMONS, LECTURE,
ACTIVITIES...

reported in Oct 1967 issue
"College & University Business"

: The Perkins & Will Partnership
Giffels & Rossetti, Inc.
Associated Architects

TUTORIAL LABS
"SUBJECT ORIENTED"

TUTORIAL LABS

...to be continued..